

AMENDMENTS TO THE SPECIFICATION

Starting on Page 4, line 17, please replace the indicated paragraph with the following:

BRIEF DESCRIPTION OF THE DRAWINGS

Other features and advantages of the invention will be apparent from the following description of the preferred embodiments thereof and from the claims, taken in conjunction with the accompanying drawings, in which:

Figs. 1A and 1B are scanning electron micrographs showing cross-sectional views of monolithic packing thermally polymerized according to the invention, at 5,000X and 12,500X magnification, respectively;

Fig. 1C is a perspective view of a section of a typical capillary column containing monolithic packing according to the invention;

Fig. 1D is a cross-sectional view of a channel of a microchip containing monolithic packing according to the invention;

Fig. 2 shows extracted ion chromatograms for selected tryptic peptides for isocratic nano-LC-ESI-MS on a monolithic column according to the invention (e.g., 20 μ m i.d. x 10 cm);

Figs. 3A-3C show gradient nano-LC-ESI-MS of a tryptic digest of a 10-protein mixture on a monolithic column according to the invention. Fig. 3A is a 3-D overlay of an LC-MS chromatogram; Fig. 3B is a planar ion density map; and Fig. 3C shows extracted ion chromatograms for selected peptides of the tryptic digest of the 10-protein mixture;

Fig. 4 is a graph showing the linearity of loading dynamic range measurements for a monolithic column according to the invention with a steep gradient;

Figs. 5A and 5B present the results of gradient nano-LC-ESI-MS of 10 amol of a bovine catalase tryptic digest on a monolithic column according to the invention. Fig. 5A shows extracted ion chromatograms for selected peptides, and Fig. 5B shows spectra at the peak maximum of the same peptides;

Fig. 6A is an MS/MS spectrum acquired during nano-LC-ESI-MS/MS of the bovine catalase digest shown in Figs. 5A and 5B, and Fig. 6B is a SEQUEST match for the spectrum presented in Fig. 6A;

Figs. 7A and 7B present the results of gradient nano-LC-ESI-MS of 1 amol of a bovine catalase tryptic digest on a monolithic column according to the invention. Fig. 7A shows extracted ion chromatograms for selected peptides, and Fig. 7B shows a spectrum at peak maximum of the catalase tryptic peptide LGPNYLQIPVNCPYR;

Fig. 8A is an MS/MS spectrum acquired during nano-LC-ESI-MS/MS of the bovine catalase digest shown in Figs. 7A and 7B, and Fig. 8B is a SEQUEST match for the spectrum presented in Fig. 8A;

Fig. 9 is a scanning electron micrographs showing cross-sectional views of monolithic packing photopolymerized according to the invention, at 3,500X magnification;

Fig. 10A shows a typical total ion gradient nano-LC/ESI-MS analysis of a tryptic digest of bovine catalase carried out on the column of Fig. 9; and

Figs. 10B-10D show extracted ion chromatograms for selected peptides from the sample separated in Fig. 10A.